IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (CURRENTLY AMENDED), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-25 and 26-35 and DELETE claim 26 as follows:

1. (CURRENTLY AMENDED) A motor power supply control apparatus including a DC power supply part having a pair of power supply terminals, and an inverter having a pair of connection terminals connected to each other by an additional line, respectively, connected to the pair of power supply terminals of the DC power supply part to receive DC power from the DC power supply part and to supply AC power to a motor, the motor power supply control apparatus comprising:

~~an~~a power supply ~~additional~~ line connecting the pair of connection terminals to each other;

a ~~breaking~~braking resistor disposed in the ~~additional~~power supply line connecting the pair of connection terminals to each other;

a control switching element disposed in ~~serial~~series with the ~~breaking~~braking resistor in the additional line;

a ~~breaking~~braking switch disposed to one of the connection terminals and switching to either a normal position connecting the one of the connection terminals to a corresponding power supply terminal, or a ~~breaking~~braking position connecting the one of the connection terminals to the additional line;

a motor speed detector detecting a speed of the motor; and

a control part controlling the ~~breaking~~braking switch to switch to the ~~breaking~~braking position and controlling the control switching element so that an on-off interval of the control switching element is controllable depending on the speed detected by the motor speed detector, when the motor is in a dynamic ~~breaking~~braking mode.

2. (CURRENTLY AMENDED) The motor power supply control apparatus according to claim 1, further comprising:

an over voltage protection resistor having a side connected between the ~~breaking~~braking

resistor and the control switching element, and a remaining side connected to the one connection terminal to be placed in series with the control switching element;

a capacitor disposed in the DC power supply part and receiving a voltage from the motor; and

an over voltage detector detecting an over voltage across opposite ends of the capacitor, and

wherein the control part controls the ~~breaking~~braking switch to switch to the normal position and turns the control switching element on when the over voltage detector detects the over voltage across the opposite ends of the capacitor.

3. (CURRENTLY AMENDED) The motor power supply control apparatus according to claim 2, further comprising:

a diode disposed, in parallel, with the over voltage protection resistor, having a cathode connected to the one connection terminal of the inverter to which the over voltage protection resistor is connected.

4. (CURRENTLY AMENDED) The motor power supply control apparatus according to claim 1, wherein the control part controls the ~~breaking~~braking switch to switch to the normal position when the motor is in a driving mode.

5. (CURRENTLY AMENDED) The motor power supply control apparatus according to claim 2, wherein a resistance value of the ~~breaking~~braking resistor is smaller than that of the over voltage protection resistor.

6. (CURRENTLY AMENDED) The motor power supply control apparatus according to claim 3, wherein a resistance value of the ~~breaking~~braking resistor is smaller than that of the over voltage protection resistor.

7. (CURRENTLY AMENDED) The motor power supply control apparatus according to claim 1, wherein the ~~breaking~~braking switch is a relay having a first contact point where the ~~breaking~~braking switch switches to the normal position and a second contact point where the ~~breaking~~braking switch switches to the ~~breaking~~braking position.

8. (CURRENTLY AMENDED) The motor power supply control apparatus according to

claim 2, wherein the ~~breaking~~braking switch is a relay having a first contact point where the ~~breaking~~braking switch switches to the normal position and a second contact point where the ~~breaking~~braking switch switches to the ~~breaking~~braking position.

9. (CURRENTLY AMENDED) The motor power supply control apparatus according to claim 3, wherein the ~~breaking~~braking switch is a relay having a first contact point where the ~~breaking~~braking switch switches to the normal position and a second contact point where the ~~breaking~~braking switch switches to the ~~breaking~~braking position.

10. (CURRENTLY AMENDED) The motor power supply control apparatus according to claim 4, wherein the ~~breaking~~braking switch is a relay having a first contact point where the ~~breaking~~braking switch switches to the normal position and a second contact point where the ~~breaking~~braking switch switches to the ~~breaking~~braking position.

11. (CURRENTLY AMENDED) A power supply including a DC supply control apparatus part having a pair of first terminals, and an inverter having a pair of second terminals, respectively, connectable to the pair of first terminals to supply AC power to a motor, the power supply comprising:

a switching element;

a wire connectable across the pair of the second terminals;

a ~~breaking~~braking resistor disposed in ~~serial~~series with the switching element in the wire;

a ~~breaking~~braking switch disposed to connect one of the pair of the second terminals to one of a corresponding one of the first terminals, in a normal position of the ~~breaking~~braking switch and the wire, in a ~~breaking~~braking position of the ~~breaking~~braking switch;

a speed detector detecting a speed of the motor; and

a control part controlling the ~~breaking~~braking switch to switch to the ~~breaking~~braking position and the switching element so that an on-off interval thereof depends on the speed detected by the speed detector, when the motor is in a dynamic ~~breaking~~braking mode.

12. (CURRENTLY AMENDED) A power supply control apparatus including a DC supply unit connected to an inverter to supply AC power to a motor, the power supply comprising:

a series of a switching element and a ~~breaking~~braking resistor connectable across input terminals of the inverter;

a ~~breaking~~braking switch disposed to connect one of the input terminals of the inverter to

one of the DC supply unit, in a normal position of the ~~breaking~~braking switch and the series of the switching element and ~~breaking~~braking resistor;

a speed detector detecting a speed of the motor; and

a control part controlling the ~~breaking~~braking switch and the switching element so that the ~~breaking~~braking switch is switched to the ~~breaking~~braking position and on-off interval of the switching element depends on the speed detected by the speed detector, when the motor is in a dynamic ~~breaking~~braking mode.

13. (CURRENTLY AMENDED) The power supply control apparatus according to claim 12, wherein:

the speed detector comprises:

an encoder coding an angle of a rotation position of the motor and calculating a rotation position and a speed of the motor based on an encoded signal, and providing the control part with information of the speed and the angle of the rotation position of the motor.

14. (CURRENTLY AMENDED) A power supply control apparatus including a DC supply unit connected to an inverter to supply AC power to a motor, the power supply comprising:

a series of a switching element and a ~~breaking~~braking resistor connectable across input terminals of the inverter;

a ~~breaking~~braking switch disposed to connect one of the input terminals of the inverter to one of the DC supply unit and the series; and

a control part detecting the speed of the motor and controlling a switching interval of the switching element according to the detected speed.

15. (CURRENTLY AMENDED) The power supply control apparatus according to claim 14, further comprising:

an over voltage protection resistor having one side connected between the ~~breaking~~braking resistor and the control switching element, and a remaining side connected to a respective one of the input terminals of the inverter to be serially connected with the switching element across the input terminals of the inverter;

an over voltage detector detecting an over voltage across output terminals of the DC supply unit, and

wherein the control part controls the ~~breaking~~braking switch to connect the respective one of the input terminals of the inverter to a respective one of the output terminals of the DC

supply unit and turns the switching element on when the over voltage detector detects the over voltage across the output terminals of the DC supply unit.

16. (CURRENTLY AMENDED) The power supply control apparatus according to claim 15, further comprising:

a diode disposed, in parallel, with the over voltage protection resistor, having a cathode connected to the one input terminal of the inverter to which the over voltage protection resistor is connected.

17. (CURRENTLY AMENDED) The power supply control apparatus according to claim 14, wherein the control part controls the ~~breaking~~braking switch to switch to the DC supply unit when the motor is in a driving mode.

18. (CURRENTLY AMENDED) The power supply control apparatus according to claim 15, wherein a resistance value of the ~~breaking~~braking resistor is smaller than that of the over voltage protection resistor.

19. (CURRENTLY AMENDED) The power supply control apparatus according to claim 16, wherein a resistance value of the ~~breaking~~braking resistor is smaller than that of the over voltage protection resistor.

20. (CURRENTLY AMENDED) The power supply control apparatus according to claim 14, wherein the ~~breaking~~braking switch comprises:

a relay having a first contact point where the ~~breaking~~braking switch switches to the DC supply unit and a second contact point where the ~~breaking~~braking switch switches to the series of the ~~breaking~~braking resistor and the switching element.

21. (CURRENTLY AMENDED) The power supply control apparatus according to claim 15, wherein the ~~breaking~~braking switch comprises:

a relay having a first contact point where the ~~breaking~~braking switch switches to the DC supply unit and a second contact point where the ~~breaking~~braking switch switches to the series of the ~~breaking~~braking resistor and the switching element.

22. (CURRENTLY AMENDED) The power supply control apparatus according to claim

16, wherein the ~~breaking~~braking switch comprises:

a relay having a first contact point where the ~~breaking~~braking switch switches to the DC supply unit and a second contact point where the ~~breaking~~braking switch switches to the series of the ~~breaking~~braking resistor and the switching element.

23. (CURRENTLY AMENDED) The power supply control apparatus according to claim 14, further comprising:

an inrush-current protection circuit to prevent an inrush-current from being generated on an initial supply of power to the DC supply unit.

24. (CURRENTLY AMENDED) The power supply control apparatus according to claim 21, wherein:

the DC supply unit comprises:

a capacitor connected across the output terminals of the DC supply unit; and

the inrush-current protection circuit comprises:

an inrush-current protection resistor reducing the inrush-current into the DC supply unit, and

an inrush-current protection relay turned off so that a rectified voltage of the DC supply unit is transferable to the capacitor by passing through the inrush-current protection resistor, or turned on so that the rectified voltage is transferable to the capacitor without passing through the inrush-current protection resistor.

25. (CURRENTLY AMENDED) The power supply control apparatus according to claim 14, wherein:

the switching element comprises:

a MOS transistor or a field effect transistor and is switchable depending on a gate input signal; and

the control part controls the gate input signal to the switching element so as to turn on or turn off the switching element to change an interval between a turning on and a turning off of the switching element.

26. (CANCELLED)

27. (CURRENTLY AMENDED) The power supply control apparatus according to claim

13, wherein, while the motor is in a driving mode, rotational energy stored by the motor regenerates in the DC supply unit through the inverter.

28. (CURRENTLY AMENDED) The power supply control apparatus according to claim 15, wherein, when the over voltage detector detects the over voltage across the output terminals of the DC supply unit, the control part keeping the ~~breaking~~braking switch connected to a first contact point to turn on the switching element and, when the over voltage detector detects no over voltage across the output terminals of the DC supply unit, the control part turning off the switching element so that current bypass the over voltage protection resistor.

29. (CURRENTLY AMENDED) The power supply control apparatus according to claim 28, wherein, if a voltage across the output terminals of the DC supply unit reaches a maximum limit, the control part keeping the ~~breaking~~braking switch connected to the first contact point and turning on the switching element to decrease the voltage across the output terminals of the DC supply unit.

30. (CURRENTLY AMENDED) The power supply control apparatus according to claim 29, wherein the control part controlling the switching element so that a variation of the voltage applied across the output terminals of the DC supply is limitable within a range and operates the switching element within the range to decrease a malfunctioning of the switching element due to noise.

31. (CURRENTLY AMENDED) The power supply control apparatus according to claim 28, wherein the control part connecting the ~~breaking~~braking switch to the second contact point when the motor makes a sudden stop or the motor stops driving when power is not applied.

32. (CURRENTLY AMENDED) The power supply control apparatus according to claim 14, wherein a portion of the current flowing in the motor flowing through a diode of the inverter and the ~~breaking~~braking resistor resulting in a shortening of the power connection terminals of the motor.

33. (CURRENTLY AMENDED) The power supply control apparatus according to claim 29, wherein, a turn-on time of the switching element is shorter, as the motor rotates faster, and, the turn-on time of the switching element is longer, as the motor rotates slower.

34. (CURRENTLY AMENDED) The power supply control apparatus according to claim 29, wherein, a duty ratio of the switching element decrease, as the speed of the motor increases, and, the duty ratio of the switching element increases, as the speed of the motor decreases.

35. (CURRENTLY AMENDED) The power supply control apparatus according to claim 14, wherein the motor is a single phase motor or a multi-phase motor.